

ABSTRACT

An exhaust line (15) connected to a chamber (13) comprises a TMP (22) and a dry pump (23). The chamber (13) and the TMP (22) are connected by a first exhaust pipe (25), and the TMP (22) and the dry pump (23) are connected by a second exhaust pipe (28). A measuring section (24) monitors a partial pressure of TiCl₄ or NH₃ in an exhaust gas flowing in the second exhaust pipe (28). Two types of process gases are alternately supplied into the chamber (13) for a predetermined time, and when the partial pressure of one of the supplied process gases in the exhaust gas is reduced to a predetermined value, a control means (12) starts supplying the other process gas.